

AUTHOR INDEX

- Alfano, Joseph L., and Thomas J. Pandolfini Jr. Statistics and the Academy Awards. Mar. 1999, 219–21.
- Amit, Miriam, Pavel Satianov, and Michael Fried. Broken-Line Functions with Unbroken Domains. Oct. 1999, 574–77.
- Artzt, Alice F. Cooperative Learning in Mathematics Teacher Education. Jan. 1999, 11–17.
- Aspinwall, Leslie, and Kenneth L. Shaw. The Recurring Fibonacci Sequence: Using a Pose-and-Probe Rubric. Mar. 1999, 192–96.
- Austin, Suzanne S., Charlotte L. Berceli, and Sarae Mathews. When Will I Ever Use This Stuff, Anyway? Dec. 1999, 798–99.
- Barnes, Julia A. Creative Writing in Trigonometry. Sept. 1999, 498–503.
- Barrett, Gloria A. Investigating Distributions of Sample Means on the Graphing Calculator. Nov. 1999, 744–47.
- Berceli, Charlotte L., Suzanne S. Austin, and Sarae Mathews. When Will I Ever Use This Stuff, Anyway? Dec. 1999, 798–99.
- Bhattacharya, Dip N., and Michael McConnell. Using the Elegance of Arithmetic to Enhance the Power of Algebra. Sept. 1999, 492–95.
- Biehl, L. Charles. Forest Fires, Oil Spills, and Fractal Geometry, Part 2: Using Fractal Complexity to Analyze Mathematical Models. Feb. 1999, 128–31, 136–39.
- Bisbee, Gregory D., and David M. Conway. Studying Proportions Using the Capture-Recapture Method. Mar. 1999, 215–18.
- Blubaugh, William L., and Kristin Emmons. Graphing for All Students. Apr. 1999, 323–26, 332–34.
- Bonsangue, Martin Vern, Gerald E. Gannon, Ed Buchman, and Nathan Gross. In Search of Perfect Triangles. Jan. 1999, 56–61 (see also Oct. 1999, 611, 626).
- Bratton, George N. The Role of Technology in Introductory Statistics Classes. Nov. 1999, 666–69.
- Bridges, Linda, and Pam Cox. Calculating Human Horsepower. Mar. 1999, 225–28.
- Brown, Alan R. Geometry's Giant Leap. Dec. 1999, 816–19.
- Buchman, Ed, Martin Vern Bonsangue, Gerald E. Gannon, and Nathan Gross. In Search of Perfect Triangles. Jan. 1999, 56–61.
- Calzada, Maria E., and Stephen M. Scariano. What Is Normal, Anyway? Nov. 1999, 682–89.
- Chelst, Kenneth R., and Thomas G. Edwards. Promote Systems of Linear Inequalities with Real-World Problems. Feb. 1999, 118–23.
- Clark, Kenneth. Test Reliability. Nov. 1999, 719–23.
- Conway, David M., and Gregory D. Bisbee. Studying Proportions Using the Capture-Recapture Method. Mar. 1999, 215–18.
- Coughlin, Robert S. Jr. Graphing Vertical and Horizontal Lines. Mar. 1999, 222–23.
- Cox, Pam, and Linda Bridges. Calculating Human Horsepower. Mar. 1999, 225–28.
- Critchlow, Carol M. A Prop Is Worth Ten Thousand Words. Jan. 1999, 27–28.
- Davis, Elwyn H. Area of Spherical Triangles. Feb. 1999, 150–53.
- Dinkheller, Ann L., and David C. Flaspohler. German Tanks: A Problem in Estimation. Nov. 1999, 724–28.
- Drost, John P. The Vortex Tessellation. Apr. 1999, 286–90.
- Duke, Johnny I. Service Learning: Taking Mathematics into the Real World. Dec. 1999, 794–96, 799.
- Dwyer, Marlene C., and Richard E. Pfeifer. Exploring Hyperbolic Geometry with The Geometer's Sketchpad. Oct. 1999, 632–37.
- Eccles, Frank M. The Euler Line and Nine-Point-Circle Theorems. Jan. 1999, 50–54 (see also Oct. 1999, 629).
- Edwards, Thomas G., and Kenneth R. Chelst. Promote Systems of Linear Inequalities with Real-World Problems. Feb. 1999, 118–23.
- Eggleton, Patrick J. Experiencing Radians. Sept. 1999, 468–71.
- Emmons, Kristin, and William L. Blubaugh. Graphing for All Students. Apr. 1999, 323–26, 332–34.
- Erickson, Dianne K. A Problem-Based Approach to Mathematics Instruction. Sept. 1999, 516–21.
- Feicht, Louis. 3-D Graphing, Contour Graphs, Topographical Maps, and Matrices Using Spreadsheets. Feb. 1999, 166–74.
- Fernandez, Maria L. Making Music with Mathematics. Feb. 1999, 90–97.
- Fidler, Mark. Chipping Away at Proofs: A Cooperative Approach. Oct. 1999, 565–67.
- Fiore, Greg. Math-Abused Students: Are We Prepared to Teach Them? May 1999, 403–6.
- Flaspohler, David C., and Ann L. Dinkheller. German Tanks: A Problem in Estimation. Nov. 1999, 724–28.
- Fried, Michael, Miriam Amit, and Pavel Satianov. Broken-Line Functions with Unbroken Domains. Oct. 1999, 574–77.
- Friedman, Hershey H., Noemi Halpern, and David Salb. Teaching Statistics Using Humorous Anecdotes. Apr. 1999, 305–8.
- Gannon, Gerald E., Martin Vern Bonsangue, Ed Buchman, and Nathan Gross. In Search of Perfect Triangles. Jan. 1999, 56–61 (see also Oct. 1999, 611, 626).
- Gernes, Don. The Rules of the Game. May 1999, 424–29.
- Goetz, Albert. Smokey the Bear Takes Algebra. Oct. 1999, 596–604.
- Good, Arnold. Exploding the Ellipse. Mar. 1999, 186–88.
- Greive, Cedric E. $\sum_{i=1}^n i^2$ and the Volume of a Cone. Dec. 1999, 825–27.
- Gronseth, Philip W. Course Diary: A Valuable Information Source. Sept. 1999, 496–97.
- Gross, Nathan, Martin Vern Bonsangue, Gerald E. Gannon, and Ed Buchman. In Search of Perfect Triangles. Jan. 1999, 56–61 (see also Oct. 1999, 611, 626).
- Guffey, Roger L. The Life Expectancy of a Jawbreaker: An Application of the Composition of Functions. Feb. 1999, 125–27.
- Halpern, Noemi, Hershey H. Friedman, and David Salb. Teaching Statistics Using Humorous Anecdotes. Apr. 1999, 305–8.
- Hooley, Donald E. Who's Winning at Monopoly Junior? Mar. 1999, 197–203.
- Hurwitz, Marsha. We Have Liftoff! Introducing the Logarithmic Function. Apr. 1999, 344–45.
- Iovinelli, Robert. Discovering Optimum Networks in Triangles. Sept. 1999, 534–39.
- Ippolito, Dennis. The Mathematics of the Spirograph. Apr. 1999, 354–58.
- Izen, Stanley P. Fearless Learning. Dec. 1999, 756–57.
- Jackson, Carol D., and R. Jon Leffingwell. The Role of Instructors in Creating Math Anxiety in Students from Kindergarten through College. Oct. 1999, 583–86.
- Jennings, Edward M. Quote the Student, Evermore. Feb. 1999, 124.
- Kahan, Jeremy. Ten Lessons from the Proof of Fermat's Last Theorem. Sept. 1999, 530–31.
- Kane, Jill A. A Book of Creative Geometry. Dec. 1999, 800–801.
- Keller, Brian A., and Heather A. Thompson. Whelk-come to Mathematics. Sept. 1999, 475–89.
- Kelley, Paul. Build a Sierpinski Pyramid. May 1999, 384–86.
- Kennedy, Dan. Assessing True Academic Success: The Next Frontier of Reform. Sept. 1999, 462–66.
- Kinzel, Margaret Tatem. Understanding Algebraic Notation from the Students' Perspective. May 1999, 436–42.
- Kitchen, Richard S. Analyzing and Making Sense of Statistics in Newspapers. Apr. 1999, 318–22.
- Koca, Robert M. Jr., Anne Larson Quinn, and Frederick Weening. Developing Mathematical Reasoning Using Attribute Games. Dec. 1999, 768–75.
- Lapp, Douglas A. Multiple Representations for Pattern Exploration with the Graphing

AUTHOR INDEX

- Alfano, Joseph L., and Thomas J. Pandolfini Jr. Statistics and the Academy Awards. Mar. 1999, 219–21.
- Amit, Miriam, Pavel Satianov, and Michael Fried. Broken-Line Functions with Unbroken Domains. Oct. 1999, 574–77.
- Artzt, Alice F. Cooperative Learning in Mathematics Teacher Education. Jan. 1999, 11–17.
- Aspinwall, Leslie, and Kenneth L. Shaw. The Recurring Fibonacci Sequence: Using a Pose-and-Probe Rubric. Mar. 1999, 192–96.
- Austin, Suzanne S., Charlotte L. Berceli, and Sarae Mathews. When Will I Ever Use This Stuff, Anyway? Dec. 1999, 798–99.
- Barnes, Julia A. Creative Writing in Trigonometry. Sept. 1999, 498–503.
- Barrett, Gloria A. Investigating Distributions of Sample Means on the Graphing Calculator. Nov. 1999, 744–47.
- Bereli, Charlotte L., Suzanne S. Austin, and Sarae Mathews. When Will I Ever Use This Stuff, Anyway? Dec. 1999, 798–99.
- Bhattacharya, Dip N., and Michael McConnell. Using the Elegance of Arithmetic to Enhance the Power of Algebra. Sept. 1999, 492–95.
- Biehl, L. Charles. Forest Fires, Oil Spills, and Fractal Geometry, Part 2: Using Fractal Complexity to Analyze Mathematical Models. Feb. 1999, 128–31, 136–39.
- Bisbee, Gregory D., and David M. Conway. Studying Proportions Using the Capture-Recapture Method. Mar. 1999, 215–18.
- Blubaugh, William L., and Kristin Emmons. Graphing for All Students. Apr. 1999, 323–26, 332–34.
- Bonsangue, Martin Vern, Gerald E. Gannon, Ed Buchman, and Nathan Gross. In Search of Perfect Triangles. Jan. 1999, 56–61 (see also Oct. 1999, 611, 626).
- Bratton, George N. The Role of Technology in Introductory Statistics Classes. Nov. 1999, 666–69.
- Bridges, Linda, and Pam Cox. Calculating Human Horsepower. Mar. 1999, 225–28.
- Brown, Alan R. Geometry's Giant Leap. Dec. 1999, 816–19.
- Buchman, Ed, Martin Vern Bonsangue, Gerald E. Gannon, and Nathan Gross. In Search of Perfect Triangles. Jan. 1999, 56–61.
- Calzada, Maria E., and Stephen M. Scariano. What Is Normal, Anyway? Nov. 1999, 682–89.
- Chelst, Kenneth R., and Thomas G. Edwards. Promote Systems of Linear Inequalities with Real-World Problems. Feb. 1999, 118–23.
- Clark, Kenneth. Test Reliability. Nov. 1999, 719–23.
- Conway, David M., and Gregory D. Bisbee. Studying Proportions Using the Capture-Recapture Method. Mar. 1999, 215–18.
- Coughlin, Robert S. Jr. Graphing Vertical and Horizontal Lines. Mar. 1999, 222–23.
- Cox, Pam, and Linda Bridges. Calculating Human Horsepower. Mar. 1999, 225–28.
- Critchlow, Carol M. A Prop Is Worth Ten Thousand Words. Jan. 1999, 27–28.
- Davis, Elwyn H. Area of Spherical Triangles. Feb. 1999, 150–53.
- Dinkheller, Ann L., and David C. Flaspohler. German Tanks: A Problem in Estimation. Nov. 1999, 724–28.
- Drost, John P. The Vortex Tessellation. Apr. 1999, 286–90.
- Duke, Johnny I. Service Learning: Taking Mathematics into the Real World. Dec. 1999, 794–96, 799.
- Dwyer, Marlene C., and Richard E. Pfeifer. Exploring Hyperbolic Geometry with The Geometer's Sketchpad. Oct. 1999, 632–37.
- Eccles, Frank M. The Euler Line and Nine-Point-Circle Theorems. Jan. 1999, 50–54 (see also Oct. 1999, 629).
- Edwards, Thomas G., and Kenneth R. Chelst. Promote Systems of Linear Inequalities with Real-World Problems. Feb. 1999, 118–23.
- Eggleton, Patrick J. Experiencing Radians. Sept. 1999, 468–71.
- Emmons, Kristin, and William L. Blubaugh. Graphing for All Students. Apr. 1999, 323–26, 332–34.
- Erickson, Dianne K. A Problem-Based Approach to Mathematics Instruction. Sept. 1999, 516–21.
- Feicht, Louis. 3-D Graphing, Contour Graphs, Topographical Maps, and Matrices Using Spreadsheets. Feb. 1999, 166–74.
- Fernandez, Maria L. Making Music with Mathematics. Feb. 1999, 90–97.
- Fidler, Mark. Chipping Away at Proofs: A Cooperative Approach. Oct. 1999, 565–67.
- Fiore, Greg. Math-Abused Students: Are We Prepared to Teach Them? May 1999, 403–6.
- Flaspohler, David C., and Ann L. Dinkheller. German Tanks: A Problem in Estimation. Nov. 1999, 724–28.
- Fried, Michael, Miriam Amit, and Pavel Satianov. Broken-Line Functions with Unbroken Domains. Oct. 1999, 574–77.
- Friedman, Hershey H., Noemi Halpern, and David Salb. Teaching Statistics Using Humorous Anecdotes. Apr. 1999, 305–8.
- Gannon, Gerald E., Martin Vern Bonsangue, Ed Buchman, and Nathan Gross. In Search of Perfect Triangles. Jan. 1999, 56–61 (see also Oct. 1999, 611, 626).
- Gernes, Don. The Rules of the Game. May 1999, 424–29.
- Goetz, Albert. Smokey the Bear Takes Algebra. Oct. 1999, 596–604.
- Good, Arnold. Exploding the Ellipse. Mar. 1999, 186–88.
- Greive, Cedric E. $\sum_{i=1}^n i^2$ and the Volume of a Cone. Dec. 1999, 825–27.
- Gronseth, Philip W. Course Diary: A Valuable Information Source. Sept. 1999, 496–97.
- Gross, Nathan, Martin Vern Bonsangue, Gerald E. Gannon, and Ed Buchman. In Search of Perfect Triangles. Jan. 1999, 56–61 (see also Oct. 1999, 611, 626).
- Guffey, Roger L. The Life Expectancy of a Jawbreaker: An Application of the Composition of Functions. Feb. 1999, 125–27.
- Halpern, Noemi, Hershey H. Friedman, and David Salb. Teaching Statistics Using Humorous Anecdotes. Apr. 1999, 305–8.
- Hooley, Donald E. Who's Winning at Monopoly Junior? Mar. 1999, 197–203.
- Hurwitz, Marsha. We Have Liftoff! Introducing the Logarithmic Function. Apr. 1999, 344–45.
- Iovinelli, Robert. Discovering Optimum Networks in Triangles. Sept. 1999, 534–39.
- Ippolito, Dennis. The Mathematics of the Spirograph. Apr. 1999, 354–58.
- Izen, Stanley P. Fearless Learning. Dec. 1999, 756–57.
- Jackson, Carol D., and R. Jon Leffingwell. The Role of Instructors in Creating Math Anxiety in Students from Kindergarten through College. Oct. 1999, 583–86.
- Jennings, Edward M. Quote the Student, Evermore. Feb. 1999, 124.
- Kahan, Jeremy. Ten Lessons from the Proof of Fermat's Last Theorem. Sept. 1999, 530–31.
- Kane, Jill A. A Book of Creative Geometry. Dec. 1999, 800–801.
- Keller, Brian A., and Heather A. Thompson. Whelk-come to Mathematics. Sept. 1999, 475–89.
- Kelley, Paul. Build a Sierpinski Pyramid. May 1999, 384–86.
- Kennedy, Dan. Assessing True Academic Success: The Next Frontier of Reform. Sept. 1999, 462–66.
- Kinzel, Margaret Tatem. Understanding Algebraic Notation from the Students' Perspective. May 1999, 436–42.
- Kitchen, Richard S. Analyzing and Making Sense of Statistics in Newspapers. Apr. 1999, 318–22.
- Koca, Robert M. Jr., Anne Larson Quinn, and Frederick Weening. Developing Mathematical Reasoning Using Attribute Games. Dec. 1999, 768–75.
- Lapp, Douglas A. Multiple Representations for Pattern Exploration with the Graphing

- Calculator and Manipulatives. Feb. 1999, 109–13.
- Lappan, Glenda. Revitalizing and Refocusing Our Efforts. Oct. 1999, 648–53.
- Lee, J. Todd. It's All in the Area. Nov. 1999, 670–72.
- Leffingwell, R. Jon, and Carol D. Jackson. The Role of Instructors in Creating Math Anxiety in Students from Kindergarten through College. Oct. 1999, 583–86.
- Légé, Steve. Why Not Three Dimensions? Oct. 1999, 560–63.
- Leikin, Roza, and Orit Zaslavsky. Cooperative Learning in Mathematics. Mar. 1999, 240–46.
- Lesser, Lawrence M. Exploring the Birthday Problem with Spreadsheets. May 1999, 407–11.
- . Making the Black Box Transparent. Dec. 1999, 780–84.
- Lewellen, Hester, and Michael G. Mikusa. Now Here Is That Authority on Mathematics Reform, Dr. Constructivist! Feb. 1999, 158–63.
- Lornell, Randi, and Judy Westerberg. Fractals in High School: Exploring a New Geometry. Mar. 1999, 260–69 (see also Sept. 1999, 524).
- Lowther, Martha. Optimization: A Project in Mathematics and Communication. Dec. 1999, 764–67, 812.
- McClintock, Ruth. Counting Triples, Triangles, and Acute Triangles. Oct. 1999, 612–19.
- McConnell, Michael, and Dip N. Bhattacharya. Using the Elegance of Arithmetic to Enhance the Power of Algebra. Sept. 1999, 492–95.
- McMullin, Lin. The Scrambler, or a Family of Vectors at the Amusement Park. Jan. 1999, 64–69.
- Manaster, Alfred B., and Beth M. Schlesinger. Geometry Problems Promoting Reasoning and Understanding. Feb. 1999, 114–16.
- Marks, Daniel. The Big Loser. Mar. 1999, 208–13.
- Mathews, Sarae, Suzanne S. Austin, and Charlotte L. Bercei. When Will I Ever Use This Stuff, Anyway? Dec. 1999, 798–99.
- Mikusa, Michael G., and Hester Lewellen. Now Here Is That Authority on Mathematics Reform, Dr. Constructivist! Feb. 1999, 158–63.
- Murdock, Tamera B. Discouraging Cheating in Your Classroom. Oct. 1999, 587–91.
- Murphy, Tricia. Changing Assessment Practices in an Algebra Class, or "Will This Be on the Test?" Mar. 1999, 247–49.
- Naylor, Michael. The Amazing Octacube. Feb. 1999, 102–4.
- . Exploring Fractals in the Classroom. Apr. 1999, 360–66 (see also Sept. 1999, 524).
- . Nonperiodic Tilings: The Irrational Numbers of the Tiling World. Jan. 1999, 34–40, 46–48.
- Ng, Vee Ming, and Khoon Yoong Wong. Using Simulation on the Internet to Teach Statistics. Nov. 1999, 729–33.
- Norwood, Rick. A Star to Guide Us. Feb. 1999, 100–101.
- O'Connor, James J. Forever May Only Be a Few Seconds. Apr. 1999, 300–301.
- Offerman, Theresa Reardon. Foam Images. May 1999, 391–99.
- Pagni, David L., and Harris S. Shultz. Extending a (TIMSS) Japanese Lesson Using Trigonometry. Mar. 1999, 189–91.
- Pandolfini, Thomas J. Jr., and Joseph L. Alfano. Statistics and the Academy Awards. Mar. 1999, 219–21.
- Patterson, Anne C. Grasping Graphing. Dec. 1999, 758–62.
- Pfiefer, Richard E., and Marlene C. Dwyer. Exploring Hyperbolic Geometry with The Geometer's Sketchpad. Oct. 1999, 632–37.
- Philipp, Randolph A., and Bonnie P. Schappelle. Algebra as Generalized Arithmetic: Starting With the Known for a Change. Apr. 1999, 310–16.
- Podlesni, James. A New Breed of Calculators: Do They Change the Way We Teach? Feb. 1999, 88–89 (see also Oct. 1999, 559, Dec. 1999, 755).
- Quinn, Anne Larson, Robert M. Koca Jr., and Frederick Weening. Developing Mathematical Reasoning Using Attribute Games. Dec. 1999, 768–75.
- Quinn, Robert J., and Stephen Tomlinson. Random Variables: Simulations and Surprising Connections. Jan. 1999, 4–9.
- Revak, Marie A., and Jihan G. Williams. The Double Stuf Dilemma. Nov. 1999, 674–75.
- Rogers, James R. Mathematics as Art: The Missing Standard. Apr. 1999, 284–85.
- Rumsey, Deborah J. Cooperative Teaching Opportunities for Introductory Statistics Teachers. Nov. 1999, 734–37.
- Ryden, Robert. Astronomical Math. Dec. 1999, 786–92.
- Salb, David, Hershey H. Friedman, and Noemi Halpern. Teaching Statistics Using Humorous Anecdotes. Apr. 1999, 305–8.
- Satianov, Pavel, Michael Fried, and Miriam Amit. Broken-Line Functions with Unbroken Domains. Oct. 1999, 574–77.
- Scariano, Stephen M., and Maria E. Calzada. What Is Normal, Anyway? Nov. 1999, 682–89.
- Schappelle, Bonnie P., and Randolph A. Philipp. Algebra as Generalized Arithmetic: Starting with the Known for a Change. Apr. 1999, 310–16.
- Schlesinger, Beth M., and Alfred B. Manaster. Geometry Problems Promoting Reasoning and Understanding. Feb. 1999, 114–16.
- Schwertman, Neil C. Discovering an Optimal Property of the Median. Nov. 1999, 692–703.
- Shaughnessy, J. Michael, and Judith S. Zawojewski. Secondary Students' Performance on Data and Chance in the 1996 NAEP. Nov. 1999, 713–18.
- Shaw, Kenneth L., and Leslie Aspinwall. The Recurring Fibonacci Sequence: Using a Pose-and-Probe Rubric. Mar. 1999, 192–96.
- Shi, Yixun. A Mathematical Study of the Game "Twenty-Four Points." Dec. 1999, 828–32.
- Shultz, Harris S. The Postage-Stamp Problem, Number Theory, and the Programmable Calculator. Jan. 1999, 20–22 (see also Dec. 1999, 779, 785).
- . Using a Digital Camera to Verify Quadratic Behavior. Apr. 1999, 292–93 (see also Oct. 1999, 628–29).
- Shultz, Harris S., and David L. Pagni. Extending a (TIMSS) Japanese Lesson Using Trigonometry. Mar. 1999, 189–91.
- Silver, Jennifer Williams. A Survey on the Use of Writing-to-Learn in Mathematics Classes. May 1999, 388–89.
- Smith, John P. III. Preparing Students for Modern Work: Lessons from Automobile Manufacturing. Mar. 1999, 254–58.
- Snyder, Judy. The Oak Leaf: Connecting Geometry and Biology. Apr. 1999, 294–98.
- Stick, Marvin E. Maclaurin and Taylor Series for Transcendental Functions: A Graphing-Calculator View of Convergence. Dec. 1999, 833–37.
- Szetela, Walter. Triangular Numbers in Problem Solving. Dec. 1999, 820–24.
- Takis, Sandra L. Titanic: A Statistical Exploration. Nov. 1999, 660–64.
- Talsma, Gary. Data Analysis and Baseball. Nov. 1999, 738–42.
- Thomas, David A., and Rex A. Thomas. Discovery Algebra: Graphing Linear Equations. Oct. 1999, 569–72.
- Thomas, Rex A., and David A. Thomas. Discovery Algebra: Graphing Linear Equations. Oct. 1999, 569–72.
- Thompson, Heather A., and Brian A. Keiler. Whelk-come to Mathematics. Sept. 1999, 475–89.
- Tomlinson, Stephen, and Robert J. Quinn. Random Variables: Simulations and Surprising Connections. Jan. 1999, 4–9.
- Weening, Frederick, Anne Larson Quinn, and Robert M. Koca Jr. Developing Mathematical Reasoning Using Attribute Games. Dec. 1999, 768–75.
- Westerberg, Judy, and Randi Lornell. Fractals in High School: Exploring a New Geometry. Mar. 1999, 260–69 (see also Sept. 1999, 524).
- Williams, Jihan G., and Marie A. Revak. The Double Stuf Dilemma. Nov. 1999, 674–75.
- Wong, Khoon Yoong, and Vee Ming Ng. Using

Simulation on the Internet to Teach Statistics. Nov. 1999, 729–33.

Zaslavsky, Orit, and Roza Leikin. Cooperative Learning in Mathematics. Mar. 1999, 240–46.
Zawojewski, Judith S., and J. Michael Shaughnessy. Secondary Students' Performance on Data and Chance in the 1996 NAEP. Nov. 1999, 713–18.

SUBJECT INDEX

Activities

Media Clips, Jan. 1999, 30–32, Feb. 1999, 140–43, Mar. 1999, 234–38, Apr. 1999, 336–39, May 1999, 412–16, Sept. 1999, 504–7, Oct. 1999, 592–95, Nov. 1999, 709–12, Dec. 1999, 808–12.
Calculating Human Horsepower. Mar. 1999, 225–28.
Discovering an Optimal Property of the Median. Nov. 1999, 692–703.
Foam Images. May 1999, 391–99.
Forest Fires, Oil Spills, and Fractal Geometry, Part 2: Using Fractal Complexity to Analyze Mathematical Models. Feb. 1999, 128–31, 136–39.
Graphing for All Students. Apr. 1999, 323–26, 332–34.
Smokey the Bear Takes Algebra. Oct. 1999, 596–604.
Studying Proportions Using the Capture-Recapture Method. Mar. 1999, 215–18.
Whelk-come to Mathematics. Sept. 1999, 475–89.
Why Not Three Dimensions? Oct. 1999, 560–63.

Algebra

Products, Feb. 1999, 178, Mar. 1999, 276–77, May 1999, 457, Sept. 1999, 555.
Projects, Jan. 1999, 72–73, Dec. 1999, 844–45.
Publications, Mar. 1999, 274–76, Apr. 1999, 371–72, May 1999, 454.
Reader Reflections, Jan. 1999, 79, Feb. 1999, 86, 154, 156, Mar. 1999, 183, 250–51, Apr. 1999, 348, May 1999, 380, 432–33, Sept. 1999, 461, 524, Oct. 1999, 628–29 (see also Apr. 1999, 292–93), Dec. 1999, 779.
Algebra as Generalized Arithmetic: Starting with the Known for a Change. Apr. 1999, 310–16.
Calculating Human Horsepower. Mar. 1999, 225–28.
Changing Assessment Practices in an Algebra Class, or "Will This Be on the Test?" Mar. 1999, 247–49.
Discovery Algebra: Graphing Linear Equations. Oct. 1999, 569–72.
Exploding the Ellipse. Mar. 1999, 186–88.
Forever May Only Be a Few Seconds. Apr. 1999, 300–301.
Graphing for All Students. Apr. 1999, 323–26, 332–34.

Graphing Vertical and Horizontal Lines. Mar. 1999, 222–23.
Grasping Graphing. Dec. 1999, 758–62.
Making the Black Box Transparent. Dec. 1999, 780–84.
Promote Systems of Linear Inequalities with Real-World Problems. Feb. 1999, 118–23.
Smokey the Bear Takes Algebra. Oct. 1999, 596–604.
Understanding Algebraic Notation from the Students' Perspective. May 1999, 436–42.
Using a Digital Camera to Verify Quadratic Behavior. Apr. 1999, 292–93 (see also Oct. 1999, 628–29).
Using the Elegance of Arithmetic to Enhance the Power of Algebra. Sept. 1999, 492–95.
Why Not Three Dimensions? Oct. 1999, 560–63.

Arithmetic

Reader Reflections, Jan. 1999, 79, Feb. 1999, 86, 156, Apr. 1999, 347, May 1999, 380.

Assessment

Publications, Jan. 1999, 70, Mar. 1999, 273, May 1999, 454.
Assessing True Academic Success: The Next Frontier of Reform. Sept. 1999, 462–66.
Changing Assessment Practices in an Algebra Class, or "Will This Be on the Test?" Mar. 1999, 247–49.

Calculus

Products, Sept. 1999, 555–56.
Publications, Feb. 1999, 176, Mar. 1999, 273, Apr. 1999, 370, Sept. 1999, 555, Oct. 1999, 640, 642.
Reader Reflections, Jan. 1999, 3, Feb. 1999, 149, 154, Mar. 1999, 250–51, May 1999, 432, Oct. 1999, 627–28.
 $\sum_{i=1}^n i^2$ and the Volume of a Cone. Dec. 1999, 825–27.
Exploding the Ellipse. Mar. 1999, 186–88.
Exploring the Birthday Problem with Spreadsheets. May 1999, 407–11.
Foam Images. May 1999, 391–99.
Maclaurin and Taylor Series for Transcendental Functions: A Graphing-Calculator View of Convergence. Dec. 1999, 833–37.
A Prop Is Worth Ten Thousand Words. Jan. 1999, 27–28.

Communication

Publications, Apr. 1999, 370, Sept. 1999, 555.
Creative Writing in Trigonometry. Sept. 1999, 498–503.
Optimization: A Project in Mathematics and Communication. Dec. 1999, 764–67, 812.
A Survey on the Use of Writing-to-Learn in Mathematics Classes. May 1999, 388–89.

Connections

Products, Feb. 1999, 179, Apr. 1999, 372, 376, Sept. 1999, 555, Oct. 1999, 642.

Publications, Jan. 1999, 70, Apr. 1999, 370, May 1999, 456, Dec. 1999, 841.
Reader Reflections, Jan. 1999, 78–79, Feb. 1999, 86.
Astronomical Math. Dec. 1999, 786–92.
Forest Fires, Oil Spills, and Fractal Geometry, Part 2: Using Fractal Complexity to Analyze Mathematical Models. Feb. 1999, 128–31, 136–39.
The Life Expectancy of a Jawbreaker: An Application of the Composition of Functions. Feb. 1999, 125–27.
Making Music with Mathematics. Feb. 1999, 90–97.
The Oak Leaf: Connecting Geometry and Biology. Apr. 1999, 294–98.
Preparing Students for Modern Work: Lessons from Automobile Manufacturing. Mar. 1999, 254–58.
Promote Systems of Linear Inequalities with Real-World Problems. Feb. 1999, 118–23.
The Scrambler, or a Family of Vectors at the Amusement Park. Jan. 1999, 64–69.

Curriculum

Products, Mar. 1999, 276, Apr. 1999, 376.
Projects, Feb. 1999, 180, Sept. 1999, 556.
Publications, Jan. 1999, 70–72, Feb. 1999, 175–76, Mar. 1999, 274, Apr. 1999, 371–72, May 1999, 456, Sept. 1999, 550–54, Oct. 1999, 638–42, Dec. 1999, 844.
Reader Reflections, Feb. 1999, 86, Apr. 1999, 280, May 1999, 382, Oct. 1999, 628.
Course Diary: A Valuable Information Source. Sept. 1999, 496–97.
Discouraging Cheating in Your Classroom. Oct. 1999, 587–91.
Math-Abused Students: Are We Prepared to Teach Them? May 1999, 403–6.
Multiple Representations for Pattern Exploration with the Graphing Calculator and Manipulatives. Feb. 1999, 109–13.
Now Here Is That Authority on Mathematics Reform, Dr. Constructivist! Feb. 1999, 158–63.
Optimization: A Project in Mathematics and Communication. Dec. 1999, 764–67, 812.
Preparing Students for Modern Work: Lessons from Automobile Manufacturing. Mar. 1999, 254–58.
Quote the Student, Evermore. Feb. 1999, 124.
The Role of Instructors in Creating Math Anxiety in Students from Kindergarten through College. Oct. 1999, 583–86.
Service Learning: Taking Mathematics into the Real World. Dec. 1999, 794–96, 799.
Ten Lessons from the Proof of Fermat's Last Theorem. Sept. 1999, 530–31.
3-D Graphing, Contour Graphs, Topographical Maps, and Matrices Using Spreadsheets. Feb. 1999, 166–74.
We Have Liftoff! Introducing the Logarithmic Function. Apr. 1999, 344–45.

When Will I Ever Use This Stuff, Anyway?
Dec. 1999, 798–99.

Discrete Mathematics

Publications, Jan. 1999, 71.

Editorials

Fearless Learning. Dec. 1999, 756–57.
Mathematics as Art: The Missing Standard.
Apr. 1999, 284–85.
Shaping the Standards: We Learned from
Your Feedback. Dec. 1999, 807.
Shaping the Standards: Your Reactions to the
Discussion Draft. Oct. 1999, 646–47.
Welcome to Our Focus Issue on Statistics.
Nov. 1999, 658–59.

Educational Research

Publications, Apr. 1999, 371–72, Sept. 1999,
550–52, Dec. 1999, 844.
Cooperative Learning in Mathematics. Mar.
1999, 240–46.
A Problem-Based Approach to Mathematics
Instruction. Sept. 1999, 516–21.
A Survey on the Use of Writing-to-Learn in
Mathematics Classes. May 1999, 388–89.
Understanding Algebraic Notation from the
Students' Perspective. May 1999, 436–42.

Equity

Projects, Feb. 1999, 180.
Publications, Feb. 1999, 176–78, Apr. 1999,
370, Oct. 1999, 642, Dec. 1999, 841.
Reader Reflections, Apr. 1999, 281.

Functions

Publications, Jan. 1999, 72.
Reader Reflections, Mar. 1999, 250, Apr. 1999,
280–81, 348.
Broken-Line Functions with Unbroken
Domains. Oct. 1999, 574–77.
The Life Expectancy of a Jawbreaker: An
Application of the Composition of Functions.
Feb. 1999, 125–27.
The Mathematics of the Spirograph. Apr.
1999, 354–58.
The Scrambler, or a Family of Vectors at the
Amusement Park. Jan. 1999, 64–69.
We Have Liftoff! Introducing the Logarithmic
Function. Apr. 1999, 344–45.

Games and Puzzles

Products, Feb. 1999, 178–79, Mar. 1999, 277,
May 1999, 457.
Publications, Jan. 1999, 70–71, Mar. 1999,
274, Sept. 1999, 552–54, Oct. 1999, 638,
Dec. 1999, 842.
Reader Reflections, Jan. 1999, 80–81 (see also
Oct. 1999, 559, 611), 82, Sept. 1999, 461,
522, Dec. 1999, 785.
A Mathematical Study of the Game "Twenty-
Four Points." Dec. 1999, 828–32.
The Rules of the Game. May 1999, 424–29.
Who's Winning at Monopoly Junior? Mar.
1999, 197–203.

Geometry

Products, Mar. 1999, 276, Apr. 1999, 372, 376,
Oct. 1999, 642.
Publications, Apr. 1999, 370–71, May 1999,
454–56, Oct. 1999, 638, Dec. 1999, 842.
Reader Reflections, Jan. 1999, 79, 80, 81, 82,
Feb. 1999, 86, 149, 154, 156, Apr. 1999,
347–50, May 1999, 380, 382, Sept. 1999, 461,
522–25 (see also Mar. 1999, 260–69, Apr.
1999, 360–66), Oct. 1999, 611, 626 (see also
Jan. 1999, 56–61), 627–29 (see also Jan.
1999, 50–54), Dec. 1999, 755, 779, 785, 797.
The Amazing Octacube. Feb. 1999, 102–4.
Area of Spherical Triangles. Feb. 1999, 150–53.
A Book of Creative Geometry. Dec. 1999,
800–801.
Build a Sierpinski Pyramid. May 1999, 384–86.
Chipping Away at Proofs: A Cooperative
Approach. Oct. 1999, 565–67.
Discovering Optimum Networks in Triangles.
Sept. 1999, 534–39.
The Euler Line and Nine-Point-Circle Theo-
rems. Jan. 1999, 50–54 (see also Oct. 1999,
629).
Experiencing Radians. Sept. 1999, 468–71.
Exploring Fractals in the Classroom. Apr.
1999, 360–66 (see also Sept. 1999, 524).
Exploring Hyperbolic Geometry with The
Geometer's Sketchpad. Oct. 1999, 632–37.
Fractals in High School: Exploring a New
Geometry. Mar. 1999, 260–69 (see also Sept.
1999, 524).
Geometry Problems Promoting Reasoning and
Understanding. Feb. 1999, 114–16.
Geometry's Giant Leap. Dec. 1999, 816–19.
In Search of Perfect Triangles. Jan. 1999,
56–61 (see also Oct. 1999, 611, 626).
Nonperiodic Tilings: The Irrational Numbers of
the Tiling World. Jan. 1999, 34–40, 46–48.
The Oak Leaf: Connecting Geometry and Biol-
ogy. Apr. 1999, 294–98.
The Vortex Tessellation. Apr. 1999, 286–90.
Why Not Three Dimensions? Oct. 1999,
560–63.

History

Products, Feb. 1999, 179.
Publications, Feb. 1999, 176, Mar. 1999, 273,
May 1999, 454, Sept. 1999, 552, Oct. 1999,
640, Dec. 1999, 842.
A Star to Guide Us. Feb. 1999, 100–101.
Ten Lessons from the Proof of Fermat's Last
Theorem. Sept. 1999, 530–31.

Manipulatives

Products, May 1999, 457.

Multiculturalism

Products, Feb. 1999, 178.
Projects, Apr. 1999, 376.

NCTM President's Message

Revitalizing and Refocusing Our Efforts. Oct.
1999, 648–53.

Number Theory

Publications, Jan. 1999, 70, 71–72, May 1999,
456, Dec. 1999, 842.
Reader Reflections, Jan. 1999, 81, Feb. 1999,
156, Mar. 1999, 250, May 1999, 382, 432,
Sept. 1999, 461, 522–23, 527, Oct. 1999, 559,
611 (see also Jan. 1999, 80–81), 626, Dec.
1999, 779, 785 (see also Jan. 1999, 20–22).
Counting Triples, Triangles, and Acute Tri-
angles. Oct. 1999, 612–19.
The Postage-Stamp Problem, Number Theory,
and the Programmable Calculator. Jan.
1999, 20–22 (see also Dec. 1999, 779, 785).
The Recurring Fibonacci Sequence: Using a
Pose-and-Probe Rubric. Mar. 1999, 192–96.
Triangular Numbers in Problem Solving. Dec.
1999, 820–24.

Pedagogy

Classy Tips, Feb. 1999, 147–49, May 1999,
444–46, Sept. 1999, 514–15, Dec. 1999,
813–15.
Projects, Jan. 1999, 72–73.
Publications, Jan. 1999, 72, Apr. 1999,
371–72, May 1999, 456, Sept. 1999, 554–55,
Oct. 1999, 638–40, Dec. 1999, 841–42.
Reader Reflections, Sept. 1999, 461.
A Book of Creative Geometry. Dec. 1999,
800–801.
Chipping Away at Proofs: A Cooperative
Approach. Oct. 1999, 565–67.
Cooperative Learning in Mathematics. Mar.
1999, 240–46.
Cooperative Learning in Mathematics Teacher
Education. Jan. 1999, 11–17.
Cooperative Teaching Opportunities for Intro-
ductory Statistics Teachers. Nov. 1999,
734–37.
Math-Abused Students: Are We Prepared to
Teach Them? May 1999, 403–6.
Now Here Is That Authority on Mathematics
Reform, Dr. Constructivist! Feb. 1999,
158–63.
A Problem-Based Approach to Mathematics
Instruction. Sept. 1999, 516–21.
Quote the Student, Evermore. Feb. 1999, 124.
The Role of Instructors in Creating Math Anx-
iety in Students from Kindergarten through
College. Oct. 1999, 583–86.
Teaching Statistics Using Humorous Anec-
dotes. Apr. 1999, 305–8.

Probability

Reader Reflections, Jan. 1999, 3, Apr. 1999,
281, 347.
The Big Loser. Mar. 1999, 208–13.
Exploring the Birthday Problem with Spread-
sheets. May 1999, 407–11.
A Mathematical Study of the Game "Twenty-
Four Points." Dec. 1999, 828–32.
Random Variables: Simulations and Surpris-
ing Connections. Jan. 1999, 4–9.
Statistics and the Academy Awards. Mar.
1999, 219–21.

Who's Winning at Monopoly Junior? Mar. 1999, 197–203.

Problem Solving

Calendars, Jan. 1999, 41–45 (see also Sept. 1999, 528, Oct. 1999, 629, Dec. 1999, 797), Feb. 1999, 131–35, Mar. 1999, 229–33 (see also Dec. 1999, 793), Apr. 1999, 327–31, May 1999, 417–22, Sept. 1999, 508–13, Oct. 1999, 606–10, Nov. 1999, 704–8, Dec. 1999, 802–6.

Products, Feb. 1999, 179.

Publications, Jan. 1999, 71–72, Feb. 1999, 176, Mar. 1999, 273–74, Dec. 1999, 842–44.

Reader Reflections, Jan. 1999, 82 (see also Apr. 1999, 350–52), Mar. 1999, 251–53 (see also Sept. 1999, 525–26), Apr. 1999, 350–52 (see also Jan. 1999, 82), May 1999, 433–35, Sept. 1999, 525–28 (see also Jan. 1999, 42–44, Mar. 1999, 252), Oct. 1999, 629, 630 (see also Jan. 1999, 41–43, Apr. 1999, 327–31), Dec. 1999, 793 (see also Mar. 1999, 229–33), 801 (see also Jan. 1999, 41–43).

The Recurring Fibonacci Sequence: Using a Pose-and-Probe Rubric. Mar. 1999, 192–96.

Professional Development

Projects, Oct. 1999, 644.

Publications, Feb. 1999, 175–76, Mar. 1999, 273.

Cooperative Learning in Mathematics Teacher Education. Jan. 1999, 11–17.

Reasoning and Proof

Publications, Apr. 1999, 371.

Reader Reflections, Jan. 1999, 80 (see also Oct. 1999, 559, 611), 81–82, Dec. 1999, 785, 793.

Chipping Away at Proofs: A Cooperative Approach. Oct. 1999, 565–67.

Developing Mathematical Reasoning Using Attribute Games. Dec. 1999, 768–75.

Geometry Problems Promoting Reasoning and Understanding. Feb. 1999, 114–16.

The Rules of the Game. May 1999, 424–29.

Statistics

Media Clips, Nov. 1999, 709–12.

Products, Sept. 1999, 555.

Publications, Jan. 1999, 70, Apr. 1999, 372, Sept. 1999, 554, Nov. 1999, 750.

Reader Reflections, Jan. 1999, 3, Mar. 1999, 183, Nov. 1999, 657, 681, 690.

Technology Tips, Nov. 1999, 744–47.

Analyzing and Making Sense of Statistics in Newspapers. Apr. 1999, 318–22.

Cooperative Teaching Opportunities for Introductory Statistics Teachers. Nov. 1999, 734–37.

Data Analysis and Baseball. Nov. 1999, 738–42.

Discovering an Optimal Property of the Median. Nov. 1999, 692–703.

The Double Stuf Dilemma. Nov. 1999, 674–75.

German Tanks: A Problem in Estimation. Nov. 1999, 724–28.

Investigating Distributions of Sample Means on the Graphing Calculator. Nov. 1999, 744–47.

It's All in the Area. Nov. 1999, 670–72.

Making the Black Box Transparent. Dec. 1999, 780–84.

The Role of Technology in Introductory Statistics Classes. Nov. 1999, 666–69.

Secondary Students' Performance on Data and Chance in the 1996 NAEP. Nov. 1999, 713–18.

Statistics and the Academy Awards. Mar. 1999, 219–21.

Studying Proportions Using the Capture-Recapture Method. Mar. 1999, 215–18.

Teaching Statistics Using Humorous Anecdotes. Apr. 1999, 305–8.

Test Reliability. Nov. 1999, 719–23.

Titanic: A Statistical Exploration. Nov. 1999, 660–64.

Using Simulation on the Internet to Teach Statistics. Nov. 1999, 729–33.

What Is Normal, Anyway? Nov. 1999, 682–89.

Teacher Education

Publications, Jan. 1999, 70.

Projects, May 1999, 458.

Cooperative Learning in Mathematics Teacher Education. Jan. 1999, 11–17.

Technology

Products, Mar. 1999, 276–77.

Publications, Jan. 1999, 70, Mar. 1999, 274–76, Apr. 1999, 370, 372.

Reader Reflections, Jan. 1999, 78, 80, Oct. 1999, 559 (see also Feb. 1999, 88–89), Dec. 1999, 755 (see also Feb. 1999, 88–89).

Technology Tips, Feb. 1999, 144–46, Apr. 1999, 340–43, May 1999, 447–51, Sept. 1999, 541–45, Oct. 1999, 620–25, Nov. 1999, 744–47.

Exploring the Birthday Problem with Spreadsheets. May 1999, 407–11.

Geometry's Giant Leap. Dec. 1999, 816–19.

Investigating Distributions of Sample Means on the Graphing Calculator. Nov. 1999, 744–47.

Making Music with Mathematics. Feb. 1999, 90–97.

Making the Black Box Transparent. Dec. 1999, 780–84.

The Postage-Stamp Problem, Number Theory, and the Programmable Calculator. Jan. 1999, 20–22 (see also Dec. 1999, 779, 785).

The Role of Technology in Introductory Statistics Classes. Nov. 1999, 666–69.

3-D Graphing, Contour Graphs, Topographical Maps, and Matrices Using Spreadsheets. Feb. 1999, 166–74.

Using a Digital Camera to Verify Quadratic Behavior. Apr. 1999, 292–93 (see also Oct. 1999, 628–29).

Using Simulation on the Internet to Teach Statistics. Nov. 1999, 729–33.

Technology Reviews

Algebra

Derive for Windows, 1997. Mar. 1999, 272.

FindAns for Windows, 1997. Dec. 1999, 840.

How the West Was Negative One, 1997. Dec. 1999, 840.

Curriculum

Products, Feb. 1999, 179–80.

Math Advantage: Deluxe Edition High School and College. Sept. 1999, 548.

Secondary Math Lab Toolkit. Sept. 1999, 548, 550.

Geometry

The Distance Game. Sept. 1999, 548.

Math Blaster Geometry. Mar. 1999, 272–73.

Statistics

Data Analysis with Microsoft Excel. Mar. 1999, 272.

Trigonometry

Multimedia Trigonometry, 1997. Dec. 1999, 840.

Tests

Publications, May 1999, 456.

Reader Reflections, Sept. 1999, 461, 522, Dec. 1999, 755 (see also Feb. 1999, 88–89).

Discouraging Cheating in Your Classroom. Oct. 1999, 587–91.

Secondary Students' Performance on Data and Chance in the 1996 NAEP. Nov. 1999, 713–18.

Test Reliability. Nov. 1999, 719–23.

Trigonometry

Publications, Sept. 1999, 554.

Reader Reflections, Jan. 1999, 79–80, Apr. 1999, 350, May 1999, 382, Sept. 1999, 522, Oct. 1999, 626.

Creative Writing in Trigonometry. Sept. 1999, 498–503.

Extending a (TIMSS) Japanese Lesson Using Trigonometry. Mar. 1999, 189–91.

The Mathematics of the Spirograph. Apr. 1999, 354–58.

The Scrambler, or a Family of Vectors at the Amusement Park. Jan. 1999, 64–69.



Improve Your Skills as a Referee for the Mathematics Teacher

Each year, the Editorial Panel of the *Mathematics Teacher* hosts a session for referees at the Annual Meeting. The session will enhance your skills as a referee for the journal or introduce you to the process. Announcements about the sessions will appear in later issues of the journal and in the program book for the 78th Annual Meeting in Chicago.

